



ORC

Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **110/20**
Issued On **20/07/2020**
ORC Ref **0388000MQ8**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 585kg
Maximum **700kg**
Minimum* **525kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	673.5	0.8909
Non Spin OSN	652.1	0.9201

Sails Limitations

Headsails **5** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes** **76.83**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

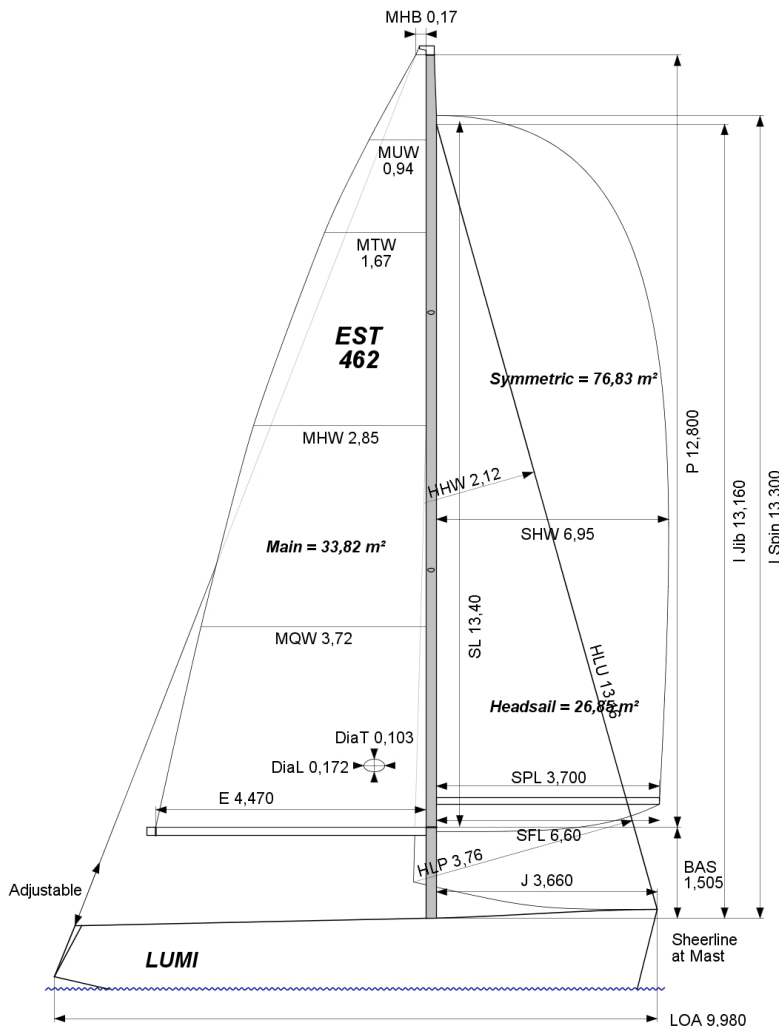
Class Division Length

CDL = 8.662

Stability (Measured)

Limit Positive Stab.: **130.1°**
Stability Index: **129.3**

Owner



BOAT		GPH	HULL			
Name Lumi		639.9	Data File EST462	LOA 9.980m		
Sail Nr EST 462			Offset File F235.OFF	MB 3.372m		
			Displacement 4,492kg	Draft 1.992m		
CLASS						
Class First 34.7	Designer Farr	IMS Division Cruiser/Racer	Dynamic All. 0.189%	Plan Review		
Builder Beneteau	Series 10/2005	Fiber Rigging No	Construction Cored	Aramid Core No		
Age Date 06/2007	Age Allowance 0.487%	Crew Arm Ex	Carbon Rudder No	Light Stanchions No		
COMMENTS		IMSL 9.079m	VCGD -0.167m	Sink 16.34kg/mm		
Ex. Matilda 3		RL 8.257m	VCGM -0.144m	WS 21.92m²		
PROPELLER		LSM0 8.919m	Displacement/Length ratio 6.3313			
Installation Strut	PRD 0.410	Water Ballast 0	Trim Tab No			
Type Folding 2 blades	PBW 0.118	BLR Index 0.0000				
	PIPA 0.0030	CENTERBOARD				
		N/A				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	621.3			692.0		
Time on Time	0.9656			0.9754		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	735.1	566.4	504.0	949.9	694.9	602.7
Time on Time	0.9182	1.1918	1.3393	0.7106	0.9713	1.1200

2020

ORC Club Certificate Appendix

BOAT	
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1088.5	903.1	792.7	734.9	715.5	708.4	701.1
52°	709.3	598.0	542.0	517.9	507.5	503.5	500.6
60°	669.4	569.2	526.8	506.1	494.2	488.8	485.9
75°	641.2	550.0	515.5	495.7	479.6	466.9	455.8
90°	649.7	546.5	505.9	486.0	475.5	458.2	430.9
110°	647.1	539.1	499.7	473.3	448.7	430.9	410.1
120°	667.1	551.0	505.4	478.2	451.7	427.1	389.5
135°	737.6	600.0	528.3	496.5	471.0	445.3	397.4
150°	872.0	693.9	586.9	526.4	497.0	473.3	426.9
Run VMG	1006.9	801.2	677.0	596.8	541.1	506.8	460.3
Selected Courses							
Windward / Leeward	1047.7	852.1	734.8	665.8	628.3	607.6	580.7
Circular Random	882.2	712.1	620.8	567.8	535.2	513.8	486.1
Coastal / Long Distance	1043.6	799.7	663.5	585.2	546.0	515.3	463.9
Non Spinnaker	942.3	754.5	652.5	592.5	555.6	531.7	502.2

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	42.8°	41.6°	41.1°	39.0°	39.0°	38.6°	38.6°
Beat VMG	3.31	3.99	4.54	4.90	5.03	5.08	5.13
52°	5.08	6.02	6.64	6.95	7.09	7.15	7.19
60°	5.38	6.32	6.83	7.11	7.28	7.37	7.41
75°	5.61	6.55	6.98	7.26	7.51	7.71	7.90
90°	5.54	6.59	7.12	7.41	7.57	7.86	8.36
110°	5.56	6.68	7.20	7.61	8.02	8.35	8.78
120°	5.40	6.53	7.12	7.53	7.97	8.43	9.24
135°	4.88	6.00	6.81	7.25	7.64	8.08	9.06
150°	4.13	5.19	6.13	6.84	7.24	7.61	8.43
Run VMG	3.58	4.49	5.32	6.03	6.65	7.10	7.82
Gybe Angles	145.0°	150.0°	151.0°	158.0°	180.0°	180.0°	180.0°